

Status Checklist Config Operate Setup Help

SV3 Pre-Launch Checklist

Date	2026-07-20T23:36:47.310Z	Glider Name	SV3-466563798(SV3-110)
Tech(s)	cwahl	Organization	MBARI
Project	MBTS	Ship/Op Area	Paragon MB

Regulus Version	SV3-110, sn=466563798, Running Regulus 3.2.2, software version of 2019-12-03T23:58:34Z, production build 35, sv3, SOMDM3730-30-1880AKIR-A, (1.2.3) secure
Plugins	Running: AirmarWeather, GPSasRudderCompass, LogAlarmReporter, RudderParametersManager, ThrusterAdjuster Not running: PortForwarder, ThrudderThrustisticsFixer

Item/Procedure	Readings	Comments	Initials
WiFi Connection	WiFi is On		☒
Virtual Relay	0 queued msgs state=WAITING, sent=0, received=0, powerState=OFF (5h31m8.870s), virtualDevice=true, powerThreadActive=false (no internet connectivity)	Still not working	☐
WGMS Iridium	IMEI:300434060354880, starts=1, r=6, w=360, sessionAttempts=408, sessionErrs=46, wErrs=0, rErrs=0, cErrs=0, 10m ss avg=4.4 (i=5), 1 queued msgs state=TALKING, sent=360, lastTx=2.139s, avgTxSize=155.4B, totalTx=51.566kB, received=6, lastRx=5h1m44.091s, totalRx=0.249kB, powerState=ON (5h30m38.945s), virtualDevice=true, Requested by: iridiumModem, powerThreadActive=false		☒
Vehicle telemetry received	available channels=[tcpChannel, virtualRelay, iridiumModem]561 blocked messages, totalMessagesDiscarded=500, averageMessageQueueRate=51.280s, queueDumpCounter=1, sent=360, totalBytesSent=51.566kB, received=6, totalBytesReceived=0.249kB, lastRx=5h1m44.169s, ProtobufMessageHandler[header=BB,header=BC,active=true, #accepted=0, #handled=0],ProtobufMessageHandler[header=BB,header=BC,active=true, #accepted=0, #handled=0],secureComms[header=A9,active=true, #accepted=0, #handled=0],WGMSCommandHandler[header=0A,active=true		☒
Location	Using GPSUblox, declination=12.381413, failoverCounter=1, timeLastSwitchedGps=2026-07-20T18:07:57Z, clockDt=1.436s		☒
Tracker telemetry received	Battery (Volts) Report Rate	15.7 volts 4 hours	☒

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	MBARI Spare tracker 2			☒
(Optional) Second Tracker Name				☐
Drybox WGMS name	CCU SV3-110 Tiny			☒
Float name	Tiny copper version			☒
Glider name	Tiny v200			☒
Umbilical Length	4m			☒
G1	Ecopuck			☒
G2				☐
G3				☐
T1				☐
D1				☐
S1	Hotspot 2? with MF DAT			☒
S2	GPCTD plus DO			☒
S3	pCO2 plus pH			☒
S4	Airmar			☒
Event definitions		Compare against standard list		☒
Vehicle and tracker op area defined		Note area name(s) and enable alarms		☒
Escalation list created/populated				☒

Item/Procedure	Readings	Comments	Initials
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Battery [Wh] > 700 Wh	935.265		☐
	0.772		
Solar Power Indicators: > 0	0.0		
	6.886		☒
	6.247		

Item/Procedure	Readings					
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime	Comments	Initials
Domain_Name=Host, Node=1, HW_SerNum=0x32385119353634330055004a On=Y	OK	31.4	118.9	Uptime: 0 days, 05:34:43		☒
Domain_Name=Thruder-2, Node=3, HW_SerNum=0x474850052038384d0057002b On=Y	OK	28.4	257.7	Uptime: 0 days, 05:26:10		☒
Domain_Name=PykInt-0x33335114373330300043001a, Node=5, HW_SerNum=0x33335114373330300043001a On=Y	OK	30.9	117.5	Uptime: 0 days, 05:08:43		☒

Mechanical Checks

	Item/Procedure	Specifications	Comments	Initials
Float	Wet-mates connected/lubed	3M Silicone Lubricant Spray 3M ID No. 62-4678-4930-3		☒
	Connector covers secure			☒
	Drybox secure	Wiggle test		☒
	Contact info secure			☒
	Hull	Inspect, note condition		☒
	Skeg/Fin	Secure		☒
Sub	Hardware secure			☒
	Umbilical visual inspection	Free of voids/defects		☒
	Umbilical ribbon cable inspection			☒
	Roll pins inserted	Flush with surface		☒
	Wings	Hardware secure with Loctite, lock nuts, and seizing wire		☒
	Thruder	Hardware secure		☒

Vehicle Functionality

Item/Procedure	Readings	Specifications	Comments	Initials
Thruster Spin	453.0	Spins freely, slow and fast speeds		☒
Rudder Range of Motion		Rudder moves freely and smoothly		☒
Rudder right, left, center	Rudder(2026-07-20T23:36:47.852Z,desiredHeading=220.1,compass=195,rack=11.5,post=15.4rudderStatus=0)	Right, Left, Center		☒
Thruder Compass Correction	Thruder compass is corrected	recommended NOT corrected	LR says that this is okay	☐
Fixed heading test (spin)	180	Avoidance Off, Note Heading Used		☒
Waypoint course test (spin)	36.797, -121.847	Avoidance Off, Note Waypoint Course Used		☒
Buoy Release Mechanism	device is disarmed, deviceState=OFF, deployCounter=0, waitTime=1m30s, powerState=OFF (5h29m11.653s), ampsPower=false, powerThreadActive=false	Catch release buoy by hand		☒
Octopus Cable 01	Failure	Must Pass	Okay when page was reloaded...	☒
Octopus Cable 02	OK	Must Pass		☒
AIS Status	lastSeen=MMSI 366934770 (NOAHS ARK). Pos=36.804642, -121.785845. t=30:0:FISHING, 2026-07-20T23:36:58.446Z, lengthErrs=1, latLonErrs=0, broadcastCount=3596, lastRx=1.399s, numberObserved=24, averageRxRateMillis=3.007s	If in harbor, must see MMSI		☒
Photo Document				☒

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=19.8°C, Press=1013.2mb, Wind Speed=2.69kn, Wind Dir=215.2°. Heading=206.2°		☒
UBLOX GPS	2026-07-20T23:37:02Z@36.8024407,-121.7871248,lastRx=0.009s, quality=100, timeout=5m, nmeaValid=true, clockDt=2.077s, lastValidFix=2026-07-20T23:37:02Z@36.8024407,-121.7871248, gpsWatchdogFailureCounter=0, ggaQCcount:2=300,numSat:sma=10.14,std=0.34,min=10.00,max=11.00,n=300,hdp:sma=1.00,std=0.01,min=1.00,max=1.12,n=300,altitude:sma=-0.66,std=0.85,min=-2.70,max=1.5		☒
Airmar GPS	2026-07-20T23:37:01.600Z@36.8024617,-121.787135,lastRx=0.244s, quality=80, timeout=5m, nmeaValid=true, clockDt=1.577s, lastValidFix=2026-07-20T23:37:01.600Z@36.8024617,-121.787135, gpsWatchdogFailureCounter=0, ggaQCcount:2=300,numSat:sma=10.00,std=0.00,min=10.00,max=10.00,n=300,hdp:sma=1.10,std=0.00,min=1.10,max=1.10,n=300,altitude:sma=5.45,std=2.53,min=1.60,max=10.70		☒
Torpedo GPS	Not Available!		☒
Water speed readings	Unknown speed; ncc=0, nci=0, tec=0, aip=0.00		☒
Obstacle Avoidance Status	Disabled		☒
Check alarms	"Out of bounds" red. All yellow/green		☒

General Comments

LF Directional transducer removed. Ecopuck connector regreased.

Technician Signature:

Note: Once vehicle is launched the following tasks must be completed

1. Clear alarms

2. Log vehide modifications in notebook

3. Vehicle on mission

4. Create *LAUNCHED* comment into WGMS

5. Upload photos to gallery website with album name: *YYYY-MM-DD VehicleName*

Submit

Print

Clear User Input